

# FOR BOARD-TO-BOARD CONNECTION

## 210 SERIES

### ■ FEATURES

- 1.27 mm (0.050 in.) pitch contact arrangement in two rows enables high-density mounting.
- Connectors are available with 30 to 120 contacts.
- Terminals are spaced in a four-row staggered arrangement (2.54 mm × 1.905 mm.) (0.100 in. × 0.075 in.) for easy PC board design.
- Sockets are available for board mounting and for 0.635 mm (0.025 in.) pitch flat cable.  
[See the description of the FCN-210 series (for board-to-cable connection).]
- Insulation is UL-approved (94V-0).

### ■ SPECIFICATIONS

| Item                           | Specifications                                |
|--------------------------------|-----------------------------------------------|
| Operating temperature range    | −55°C to +105°C                               |
| Current rating                 | DC 2 A                                        |
| Voltage rating                 | AC 250 V                                      |
| Contact resistance             | 35 mΩ max. (DC 6 V, 0.1 V)                    |
| Insulation resistance          | 1000 MΩ min. (DC 500 V)                       |
| Dielectric withstand voltage   | 500 VAC for 1 minute                          |
| Insertion force                | 4 kg max. (10 pins)                           |
| Withdrawal force               | 250 g min. (10 pins)                          |
| Applicable PC board (standard) | Thickness: 0.8 to 1.6 mm (0.031 to 0.063 in.) |

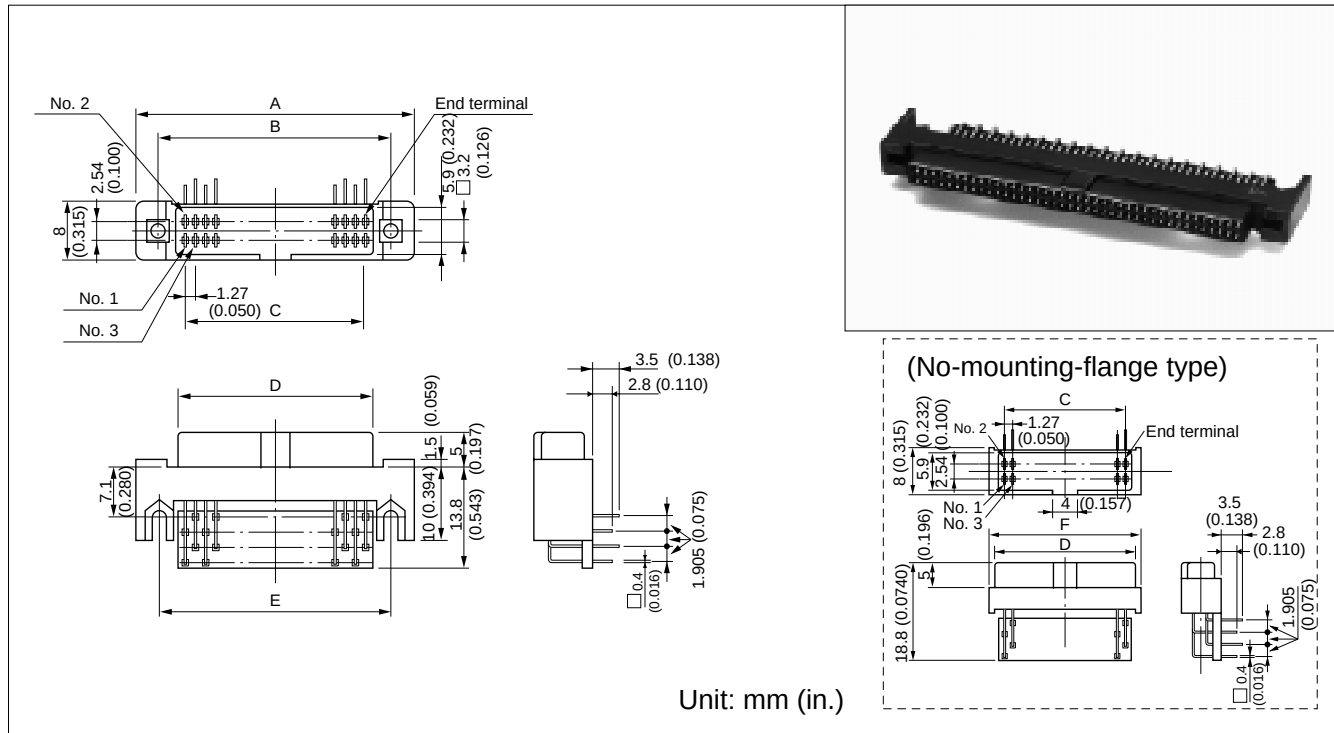


### ■ MATERIALS

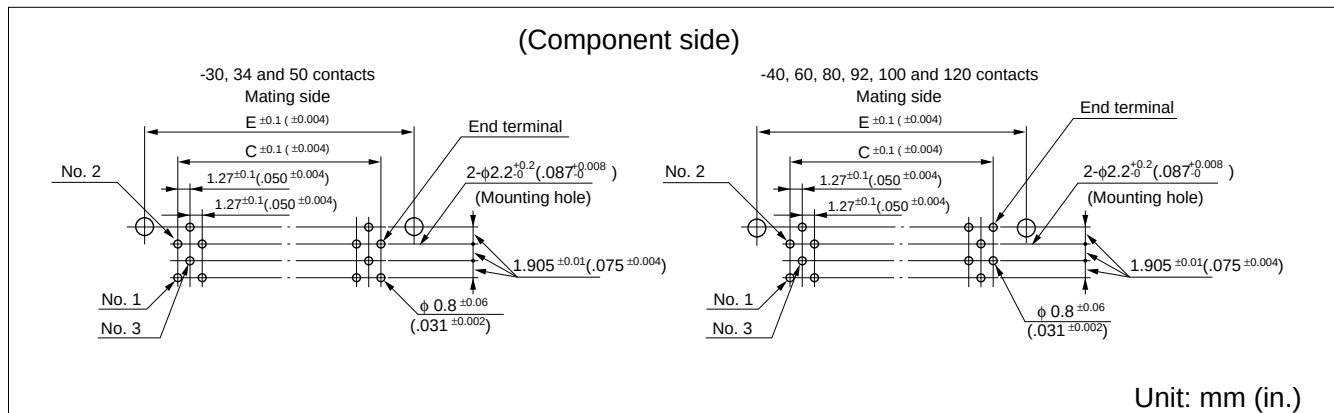
| Item      | Materials           |                   |
|-----------|---------------------|-------------------|
| Insulator | Polyester (UL94V-0) |                   |
| Conductor | Copper alloy        |                   |
| Plating   | Contact             | Gold plating      |
|           | Terminal            | Palladium plating |

## RIGHT-ANGLE SOCKET

### ■ DIMENSIONS



### ■ MOUNTING HOLE LAYOUT



The no-mounting-flange type does not require the mounting hole of 2-φ2.2 mm (0.09 in.).

### ■ PART NUMBERS AND DIMENSIONS

| Number of contacts | Part number     | Dimensions: mm (in.) |               |               |               |               |               |
|--------------------|-----------------|----------------------|---------------|---------------|---------------|---------------|---------------|
|                    |                 | A                    | B             | C             | D             | E             | F             |
| 30                 | FCN-215J030-G/0 | 31.83 (1.253)        | 26.28 (1.035) | 17.78 (0.700) | 20.68 (0.814) | 25.28 (0.995) | 23.08 (0.908) |
| 34                 | FCN-215J034-G/0 | 34.73 (1.367)        | 28.82 (1.135) | 20.32 (0.800) | 23.22 (0.914) | 27.82 (1.095) | 34.37 (1.353) |
| 40                 | FCN-215J040-G/0 | 38.18 (1.503)        | 32.63 (1.285) | 24.13 (0.950) | 27.03 (1.064) | 31.63 (1.245) | 38.18 (1.503) |
| 50                 | FCN-215J050-G/0 | 44.35 (1.746)        | 38.98 (1.535) | 30.48 (1.200) | 33.38 (1.314) | 37.98 (1.495) | 44.53 (1.753) |
| 60                 | FCN-215J060-G/0 | 50.88 (2.003)        | 45.33 (1.785) | 36.83 (1.450) | 39.73 (1.564) | 44.33 (1.745) | 50.88 (2.003) |
| 80                 | FCN-215J080-G/0 | 63.58 (2.503)        | 58.03 (2.285) | 49.53 (1.950) | 52.43 (2.064) | 57.03 (2.245) | 63.58 (2.503) |
| 92                 | FCN-215J092-G/0 | 71.20 (2.803)        | 65.65 (2.585) | 57.15 (2.250) | 60.05 (2.364) | 64.65 (2.545) | 71.20 (2.803) |
| 100                | FCN-215J100-G/0 | 76.28 (3.003)        | 70.73 (2.785) | 62.23 (2.450) | 65.13 (2.564) | 69.73 (2.745) | 76.28 (3.003) |
| 120                | FCN-215J120-G/0 | 88.98 (3.503)        | 83.43 (3.285) | 74.93 (2.950) | 77.83 (3.064) | 82.43 (3.245) | 88.98 (3.503) |

Replace "-G/0" with "-G/A" for no-mounting-flange type

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